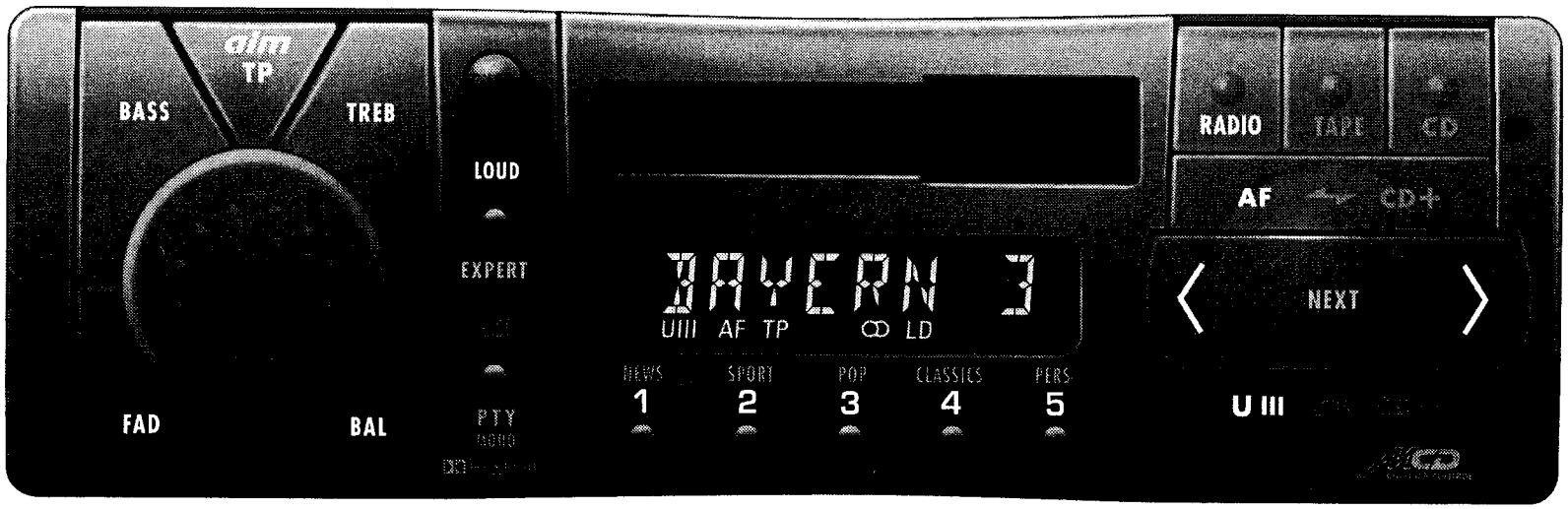
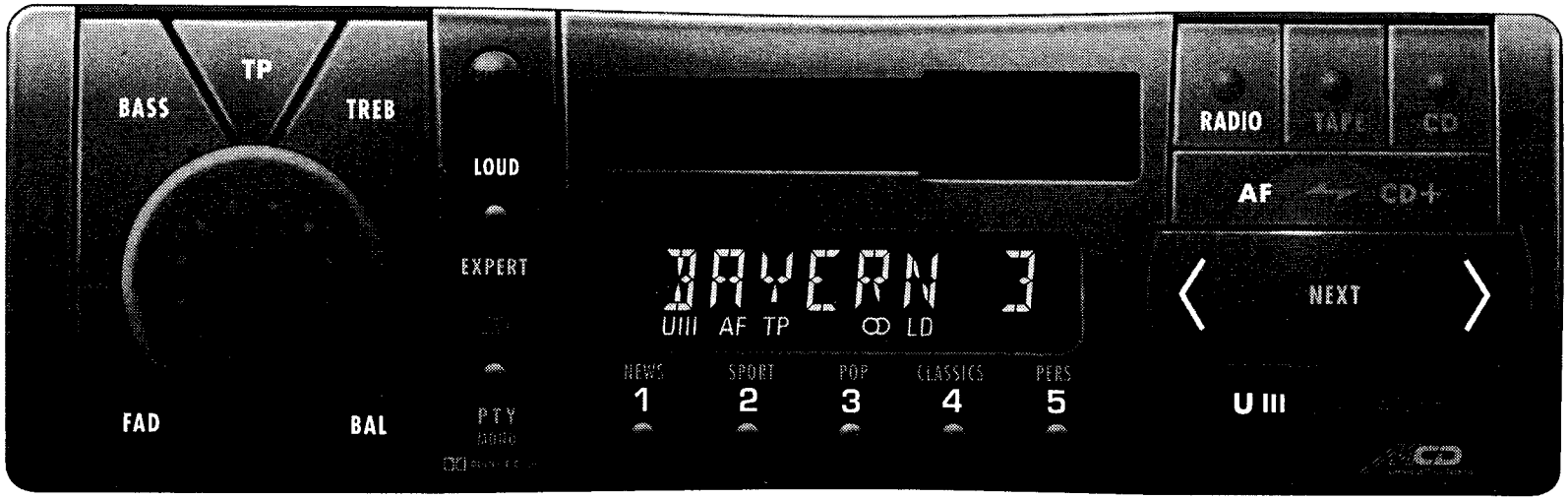
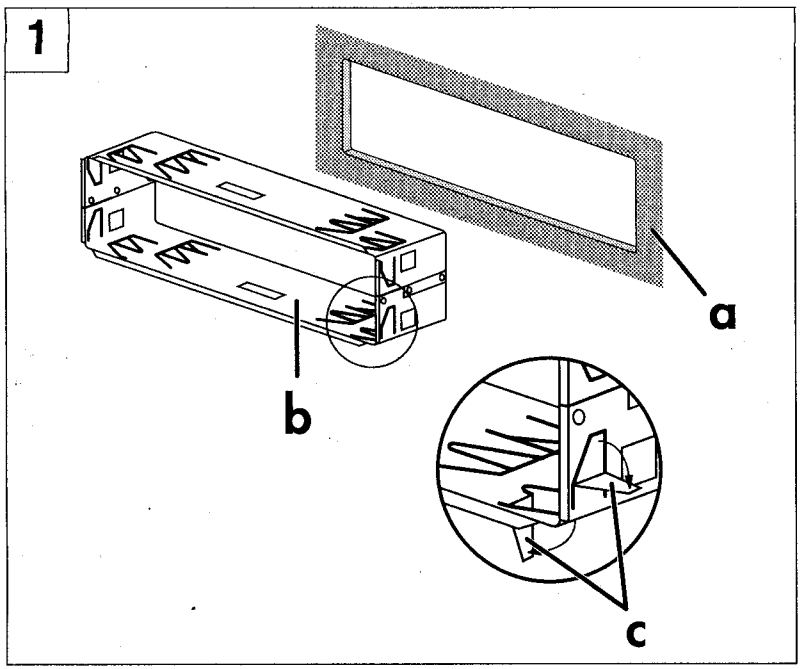
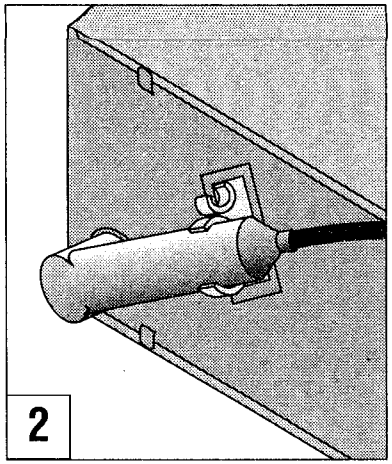
EC 7500 RDS

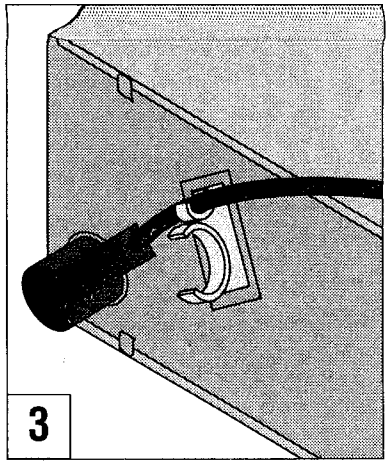


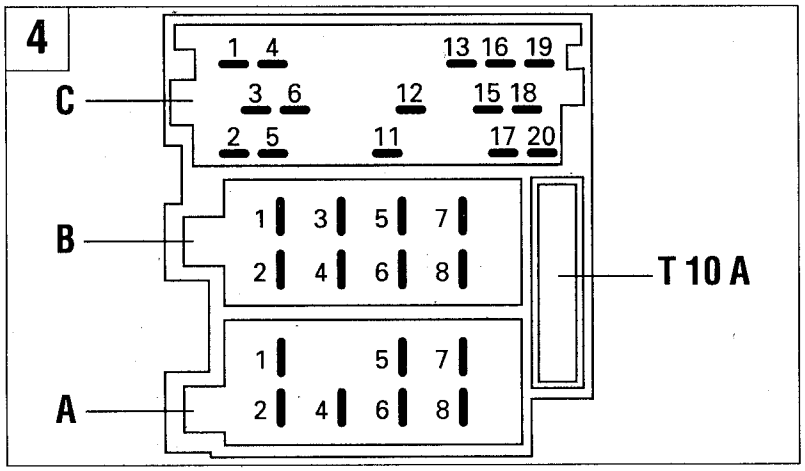
EC 7400 RDS

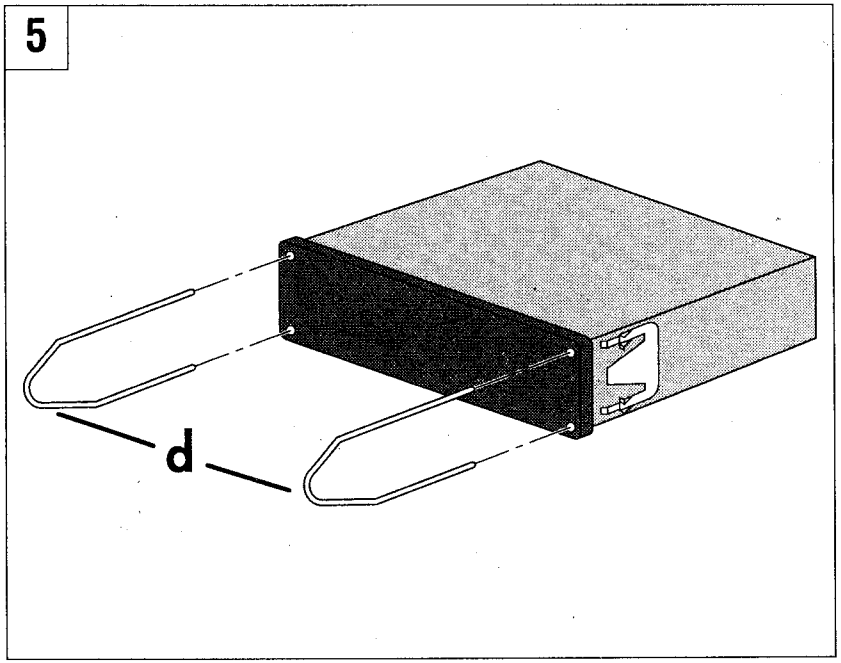



1
a
b
c


2


3


4
C
B
A
1 4
13 16 19
3 6
12
15 18
2 5
11
17 20
1 3 5 7
2 4 6 8
1 5 7
2 4 6 8
T 10 A


5
d

EC 7500 RDS / EC 7400 RDS

(D) EC 7500 RDS

mit

- AIM: **A**UTOMATIC **I**NFO **M**EMO
  Verkehrsfunk-Durchsagen speichern
- Dolby C NR (□□ C)
- Akustiksystem:
  Bässe und Höhen, der Lautsprecher hinten und vorne, können Sie getrennt einstellen.

(GB) EC 7500 RDS

with

- AIM: **A**UTOMATIC **I**NFO **M**EMO
  Stores traffic radio announcements
- Dolby C NR (□□ C)
- Acoustic system:
  You can set bass and treble separately for the front and rear speakers.

(I) EC 7500 RDS

con

- AIM: **A**UTOMATIC **I**NFO **M**EMO
  memorizzare i comunicati sul traffico
- Dolby C NR (□□ C)
- Sistema acustico:
  I bassi e gli alti, degli altoparlanti anteriori e posteriori, si possono regolare separatamente.

(F) EC 7500 RDS

avec

- AIM: **A**UTOMATIC **I**NFO **M**EMO
  Mémorisation automatique des annónces de l'émetteur d'informations routières.
- Dolby C NR (□□ C)
- **Système acoustique**
  Vous pouvez régler séparément les basses et les aiguës, les haut-parleurs avant et arrière.

(NL) EC 7500 RDS

met

- AIM: **A**UTOMATIC **I**NFO **M**EMO
  Verkeersinformatie opslaan
- Dolby C NR (□□ C)
- Akoestisch systeem:
  Lage en hoge tonen, de luidspreker achter en voor, kunt u apart instellen.

(E) EC 7500 RDS

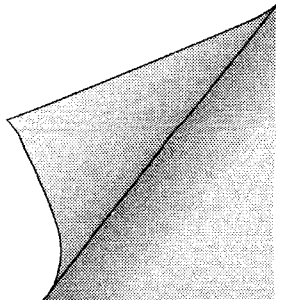
con

- AIM: **A**UTOMATIC **I**NFO **M**EMO
  Memoria de programas de tráfico
- Dolby C NR (□□ C)
- Sistema acústico:
  Ajuste independiente de los graves y agudos, y de los altavoces delanteros y traseros.

(P) EC 7500 RDS

com

- AIM: AUTOMATIC INFO MEMO
  memorização de mensagens sobre o trânsito
- Dolby C NR (□□ C)
- sistema acústico:
  regulação separada dos agudos e graves para os altofalantes dianteiros e traseiros.



Contents

Please note 1 – 3

Identity Card
Installation of the car radio
Traffic safety
Aerial
Theft protection
Removable control panel
Switching on and off
Switching on for 1 hour max.
Phone operation

EASY CONTROL 4–5

Display 6

Amplifier at a glance 7

Radio at a glance 8–10

Programme source RADIO
Select range
Stereo reception
Setting stations/RDS programmes – LEARN memory
Setting stations/RDS programmes – Search function
Manual frequency setting
Memory position buttons
Alternative frequencies (AF)

Traffic radio 10–11

Traffic announcement stand-by (TP)
*Store traffic announcements (AIM)

PTY programme types 12

Cassette at a glance 13–14

Compact Disc (CD) 14–15

EXPERT settings 16–18

Coding 19–20

Maintenance and care 21

SCV speed controlled volume 21

Installation and removal 22–23

Important information 24

Cassettes and
Dolby noise reduction
Reception conditions
Radio Data System (RDS)
Enhanced Other Network (EON)

Please note

GB

ATTENTION with automatic aerials and AIM memory stand-by* !

If you switch the car radio off,
the automatic aerial will remain extended for approx. 2 hours.
If TIMER has been selected, the automatic aerial will automatically extend at the programmed time.

Therefore, before you enter a car wash, for example: EMERGENCY OFF
With ignition on,
turn rotary knob until > NO AIM < appears in display and automatic aerial retracts!
The automatic aerial remains retracted until you switch on the car radio again using the rotary knob (push).
The AIM settings remain intact.

GRUNDIG Environmental Initiative

You will certainly have noticed,
that we have completely avoided use of plastic for the packaging of the car radio.
All elements of the packaging are of cardboard/paper and may be disposed of in existing paper recycling systems.

All technical and optical modifications reserved!

*EC 7500 RDS

Please note

Identity Card

The Identity Card of your car radio contains its type, serial number and code number (See illustration at back of manual).

The serial number is identical to the number embossed onto the car radio.

The Identity Card facilitates criminal investigation by the police in case of radio theft and speeds settlement of an insurance claim by providing evidence of ownership.

Keep the card in a safe place, out of reach of unauthorised persons.

Installation of the car radio

These operating instructions assume that your car radio has been correctly connected and installed by your dealer.

If you wish to install the device yourself, please be sure to observe the information in the chapter **"Installation and removal"** beginning on page 22 as well as the illustrations at the beginning of the manual.

Traffic safety

Please familiarise yourself with the various functions of your car radio before you start to drive (e.g., how to store a station).

Volume:
Operating your radio at high volume while driving can endanger you and others. Therefore, always adjust the volume so that you can still safely hear outside noises (e.g., car horns, police and emergency vehicles, etc.).

Aerial

Your car radio is designed for connection to a 75 Ω (to 150 Ω) aerial (impedance).
Extending the aerial cable, to the rear of the car, for example, can impair signal reception.

Theft protection

CODE label

Illustration at the back of the manual.
The code label, placed on the inside of the car window for high visibility, shows everyone:
The car radio is worthless to thieves!

Coding

If the coding has been activated and the car radio is disconnected from the car battery (or permanent plus clamp 30 of your car), it is electronically blocked.
Only you can place it back into operation by entering your personal code number (Coding, page 20).

Removing the control panel

In addition to activating coding, you can remove the control panel of the car radio and take it with you. This renders the car radio worthless to thieves.

Security LED display

Memory position button 3 flashes,
when the car radio, the ignition/starter switch, and the vehicle lights are switched off.
The security LED display must be switched on (EXPERT setting, page 18: ㉒ Switching the security LED display On/Off).
Higher flashing frequency with AIM Memory stand-by (EC 7500 RDS), page 10.

Removable control panel

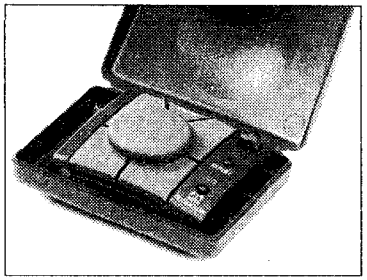
You can remove the control panel while the radio is on.
The radio then switches itself off.
AIM memory standby* is retained.

Removing the control panel

Press the PUSH button. The control panel swings out and you can remove it.

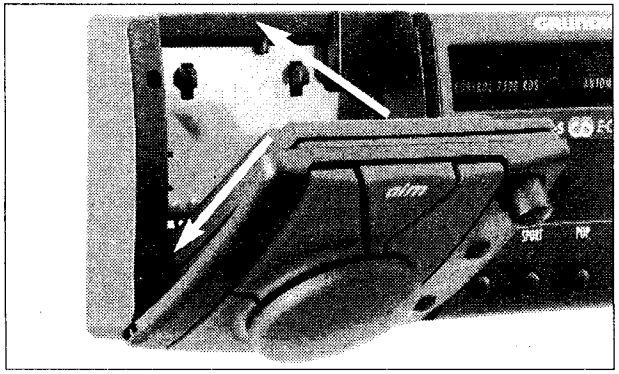
*EC 7500 RDS

Store operating element in case
and protect from moisture.



Inserting the control panel

Insert control panel into the locking catches in the unit cutout from above (below).



Control panel swung out

Then push on the top of the control panel until it snaps in.
Switch on the car radio using the rotary knob (push).

In case of loss of the control panel, replacement can be made at an additional charge upon proof of ownership (e.g. Identity Card). Please consult your dealer.

Switching on and off

- **at the car radio**
  press the rotary knob
- **with the ignition/starter switch**
  of the car, if the car radio was previously switched off using the ignition/starter switch.
  See Supply voltages
  A4 (+12V ignition voltage), page 22 and
  EXPERT setting ㉕ Switching on and off..., page 18.

Switching on for 1 hour max.

If the car radio was switched off with the ignition/starter switch of the car, you can switch it on for a maximum of 1 hour using the rotary knob (press).

- If the ignition/starter switch remains off, the car radio automatically switches itself off after 1 hour.
- If you wish to switch the car radio off sooner, press the rotary knob.

It is possible to switch the car radio on repeatedly.

Phone mode

Connection option for car telephone or CB radio.

Mute

The car radio is "muted" during operation of the car telephone or the CB radio.

Speaker phone

when radio is switched on.
When you use the telephone you can also use the car radio to listen to the conversation trough the speakers.
The additional telephone speaker must remain connected (otherwise no calltone when car radio is switched off)!
While you "listen trough the speakers" you can set volume, bass, treble, and volume relationships as required. The settings are retained for phone mode.

Connection and adjustment

- Supply voltages, page 22:
  A2 Telephone mute.
- Additional connections, page 23:
  Phone input C11/C12.
- EXPERT adjustment, page 18:
  ㉑ Mute with telephone operation.

GB

EASY CONTROL

What does **EASY CONTROL** mean?

SIMPLEST POSSIBLE OPERATION,
the **clear organisation** of the user surface of the car radio in three **separate function blocks** makes orientation extremely easy.

FEW BUTTONS,
with which only the important functions of the car radio are operated directly.

CONFIRMATION MESSAGES
on the function mode **through colour alteration** of the button symbol or **through sound signals**.

MULTI-FUNCTION BUTTONS
indicate only the **current button allocation** and thus reduce superfluous information noticeably.

EXPERT

26 "possible" settings, without losing the overview.

To make operation of the car radio as simple as possible, a large number of settings which you require only once or occasionally are located in an additional operating level (EXPERT).

If you wish to return to the works settings:
Switch the car radio off.
Press memory position button 5 and the rotary knob for longer than 6 seconds, until a signal sounds.

EXPERT settings are to be found in the section starting on page 16.

AMPLIFIER

Using the **ROTARY KNOB** you can switch the car radio on and off, alter the volume, and carry out fader, balance, bass, treble, and EXPERT settings.

The current rotary knob allocation is indicated by colour alteration of the respective buttons.
The median setting is achieved by pressing the button for a longer period (confirmation message by sound signal).

Example bass

Press BASS button briefly:
colour alteration,
the BASS button is "ACTIVATED".
You can now alter bass reproduction using the rotary knob.

Immediate median setting for bass reproduction:
Press BASS button until **signal sounds**.

GB

CONTROL PANEL

At last, a control panel
which you don´t have to
pick up from the floor!

Press PUSH -button.

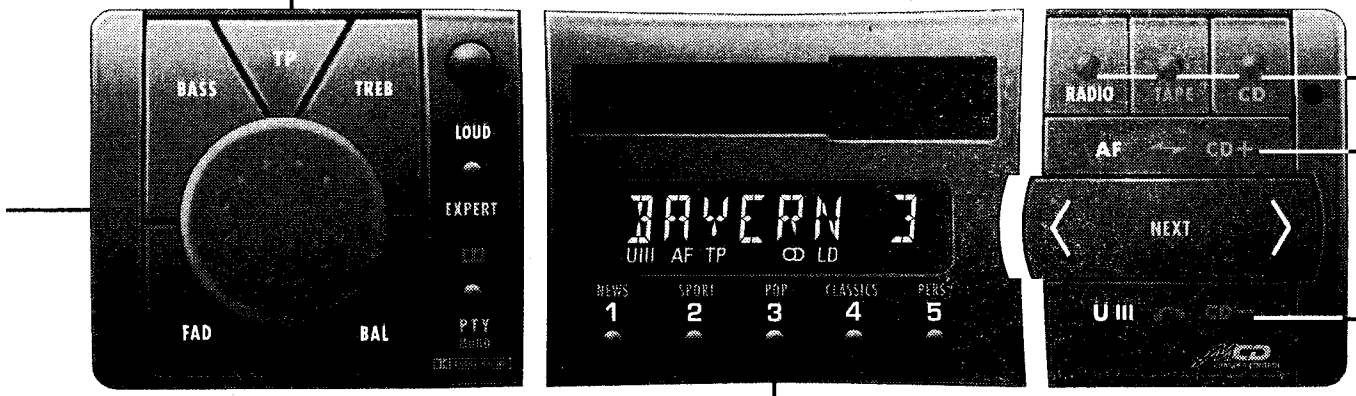
The control panel hinges forwards and waits to be taken out.

SECURITY

So that the "car radio" stays where it is:
Security light display,
memory position button 3, flashes.
Code sticker on the car windows.
Coding "activated".
Operating element taken out.
... you can´t do more!

PROGRAMME SOURCES

If you have inserted CDs and a cassette, you can select the programme sources directly. If, for example, you are listening to a cassette and switch to CD or radio, the cassette component switches to standby. When you switch back to cassette, it continues at the position where it was interrupted.



CASSETTE COMPARTMENT, DISPLAY, NUMERIC BUTTONS

The **display** provides all important operating information during radio, cassette, and CD operation.

In the EXPERT operating level the settings are indicated.

The **numeric buttons** are required to store and call up programmes, to search stations with PTY identification, and to activate and deactivate the theft protection.

MULTI-FUNCTION BUTTONS

After you have selected a programme source you can operate various functions using the multi-function buttons.
Only the button symbols which you require for the selected programme source or function are illuminated.
The other buttons have no function.
Example RADIO mode, see figure.

Display

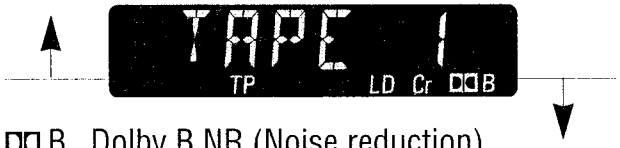
Radio

FM U Range (FM)
MW Range (AM)
LW Range (long wave)
MAN Tune stations/RDS programmes manually
DX Maximum Search sensitivity
LRN RDS programmes are stored in LEARN memory
NO AIM* No AIM memory stand-by when car radio is off.
FREE 03 Memory position (e.g., Button 3) available
RDS–SCAN LEARN memory: Manually call up RDS programmes
AUTOSCAN LEARN memory: Automatically call up RDS programmes
RESET Stops MC SCAN

U Ranges: **UI UII UIII**
AF RDS programme with alternative frequencies
TP Station/RDS programme with traffic announcements
PTY Programme types, as long as the selected programme type is offered or "NO PTY" is selected.
∞ Stereo reception
LD Better sound quality with lower volume (LOUD).
○ The car radio has been switched manually to mono.

Cassette

TAPE 1 upper side of cassette
TAPE 2 lower side of cassette
APF Automatic Program Finder
APF +4 Skip music selections, e.g., 4
APF –6 Repeat music selections, e.g., 6
TAPE FF fast forward
TAPE FR fast reverse
MC PAUSE Cassette Pause
MC SCAN Play brief sample of each selection
RESET Stops MC SCAN



DD B Dolby B NR (Noise reduction)
DD C* Dolby C NR (Noise reduction)
Cr Chrome cassette
LD Better sound quality with lower volume (LOUD).

CD

CD 1 T01 1st CD – 1st title or
T01 01:15 1st title – Play time -1st title
CD SCAN Sample 1st title of each CD for approx. 10 seconds (CD SCAN)
TR RND Play back titles of the CD in random sequence (TRACK RANDOM)
CD PAUSE Interrupt CD reproduction
CD CHECK CD magazine being checked
TOO HOT CD changer overheated
MECHANIK CD changer – mechanical
SURFACE CD incorrectly inserted or data transmission disturbed
MAGAZINE CD magazine missing or not snapped in
NO CD CD magazine empty
CD No CD changer connected, or connection to CD changer interrupted
RESET Terminate CD SCAN and TRACK RANDOM

*EC 7500 RDS

Amplifier at a glance

GB

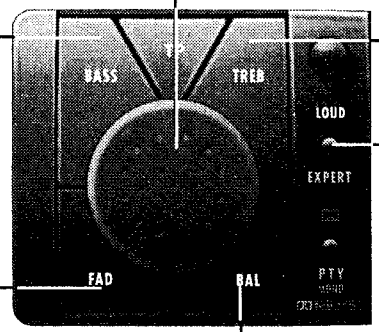
BASS
Briefly press BASS button.
Turn rotary knob:
>BASS -14<...>BASS 00<...>BASS +14<
End adjustment:
Briefly press BASS button, or automatically after approx. 10 seconds.
Immediate median setting:
Press BASS button until signal sounds.

Speaker FAD (Fader)
Front ↔ Rear
Briefly press FAD button.
Turn rotary knob:
>FAD F31<...>FAD F--R<...>FAD R31<
Front...Median setting...Rear
End adjustment:
Briefly press FAD button, or automatically after approx. 10 seconds.
Immediate median setting:
Press FAD button until signal sounds.

Overload protection
The overload protection may be triggered under high ambient temperature and high volume.
The final output stages of the speaker are shut off and lighting is reduced for the duration of the overload.

Switching on and off at the unit:
Briefly press rotary knob.

Volume
Turn rotary knob:
>VOL 00 ... VOL 68<



Speaker BAL (Balance)
Left ↔ Right
Briefly press BAL button.
Turn rotary knob:
>BAL L31<...>BAL L--R<...>BAL R31<
Left.....Median setting.....Right
End adjustment:
Briefly press BAL button, or automatically after approx. 10 seconds.
Immediate median setting:
Press BAL button until signal sounds.

Treble TREB
Briefly press TREB button.
Turn rotary knob:
>TREB -14<...>TREB 00<...>TREB +14<
End adjustment:
Briefly press TREB button, or automatically after approx. 10 seconds.
Immediate median setting:
Press TREB button until signal sounds.

LOUD (Loudness)
for better sound quality with low volume.
Briefly press LOUD button:
>LD< (On) or. > < (Off) in display.

EXPERT settings, pages 17 and 18:
⑫ Volume limit when switching on.
⑯ On/Off delay for connected power booster.
⑰ to ⑳ Bass and treble (EC 7500 RDS) – front and rear speakers.
㉕ Switching on and off with the ignition/start switch (see also page 3).

Display indicators in display > ... <

Radio at a glance

Program source RADIO
With Cassette or CD mode:
Briefly press RADIO button.
EASY CONTROL
Only those button symbols light up which you need for radio operation.
The other buttons have no function.

Select range
Briefly press RADIO button (repeatedly).
FM ranges: FM 87.5...108.0 MHz
Switching between **U I**, **U II**, **U III**:
Briefly press **U III** button (repeatedly).
MW range: AM 531...1602 kHz
LW range: long wave 153...279 kHz
Range selected:
You will hear that station which was last played in this range/RDS programme (Last-station-memory).

Stereo reception (FM only),
if >∞< is in display.
Manual switch to **Mono**:
Press MONO button until signal sounds;
>O< in display.
Switch back to stereo:
Press MONO button until signal sounds.

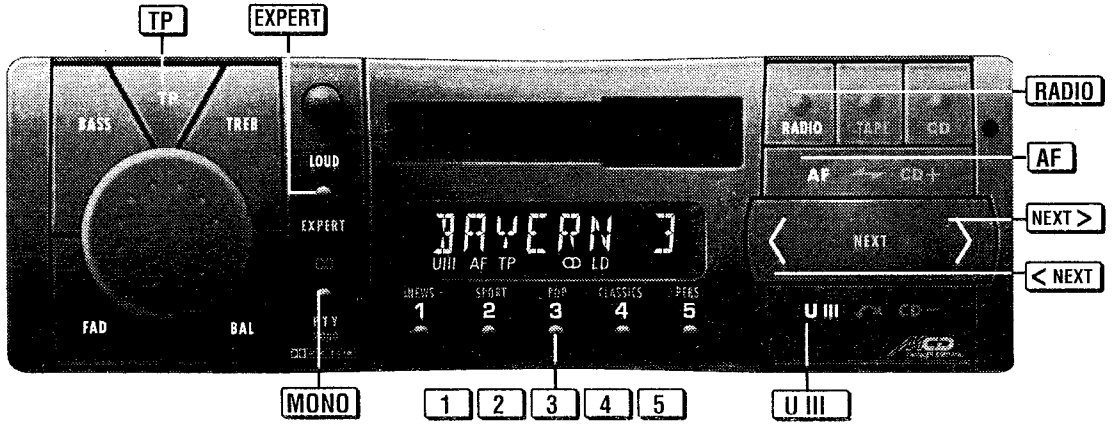
Setting RDS programmes
LEARN memory
With the push of a button,
you can store up to 25 RDA programmes in the LEARN memory!
You can call up the stored RDS programmes in sequence,
– manually (RDS SCAN) or
– automatically (AUTOSCAN).

Assigning LEARN memory
Range: U I, U II or U III.
Press AF button until signal sounds:
RDS programmes (max. 25) in your reception area are stored;
>LRN ...< is in display.
Subsequently you will hear the RDS programmes with the best reception.

Calling up RDS programmes in sequence
Range: U I, U II or U III.
Call up only "RDS programmes with traffic announcements" if TP button "activated".
On/Off: Press TP button
(with EC 7500 RDS – press until signal sounds).

– manual (RDS SCAN)
Briefly press NEXT> or <NEXT button (repeatedly):
>RDS SCAN< is in display. Then you will hear the next RDS programme.

– automatic (AUTOSCAN)
Press the RADIO button until signal sounds:
RDS programmes are called up in sequence for approx. 10 seconds each.
If you wish to listen to one of these stations:
Briefly press the RADIO button;
>RESET< appears briefly in display.



GB

Setting stations/RDS programmes
Search function

Select range: U I, U II, U III, M or L.

Press [NEXT>] or [<NEXT] button until search starts, e.g., . >FM 92.7< is in display.

Search stops at next station/RDS programme.

Maximum search sensitivity, when > DX < is in the display:

– autom. after the first search through the whole frequency range.
– switching > DX < on:
  press [NEXT>] or [<NEXT] button until double signal sounds.
– switching > DX < off:
  press [NEXT>]-or [<NEXT] button until signal sounds.

Search only stations/RDS programmes with traffic announcements, when [TP] button is "activated".

On/off: press [TP] button

(with EC 7500 RDS - press until signal sounds).

Manual frequency tuning

1. Select range: U I, U II, U III, M or L.
2. Press [EXPERT] button until signal sounds.
3. Use rotary knob (turn) to set >MAN ...< in display.
4. Briefly press [EXPERT] button:
   Display colour changes.
5. Use rotary knob (turn) to set >MAN ON< in display.
6. Press [EXPERT] button until signal sounds.
7. Set frequency:
   Press [NEXT>] button or [<NEXT] button briefly or longer; e.g.,
   >MAN 92.7< is in display.

Please note

Frequency display in U I, U II and U III ranges is in 0.1-MHz increments (100 kHz).

Frequency alteration by pressing the buttons is more sensitive (50 kHz).

8. Exiting the MAN function:
   For example, press one of the memory positions [1] to [5], press [U III] button or autom. after approx. 60 seconds.

Memory positions [1] [2] [3] [4] [5]

Select range: U I, U II, U III, M or L.

Tuning station/RDS programme:

If the tuned station/RDS programme in the selected range, e.g. > U I <, is already stored at a memory position, the respective number is "activated".

Storing:

Press memory position until signal sounds.

If "AF switched off" (Alternative frequencies, page 10), this is also stored.

Retrieval:

Briefly press memory position.

The stored memory of the memory positions remains intact even if the supply voltage is disconnected.

Important Information, page 24:
Radio reception conditions,
Radio Data System (RDS) and
Enhanced Other Network (EON)

Alternative frequencies (AF)

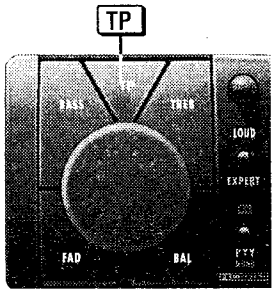
>AF< is in display:
You are receiving an RDS programme that is being broadcast by several stations (Alternative frequencies, see page 24).

AF button "activated":
Your car radio will always tune to a station with good reception that is broadcasting the same RDS programme.

Switching AF off:
If you are in an area with poor reception and the car radio "continually and disruptively" switches between a number of AF's.
Briefly press AF button:
AF button "no longer activated".
>AF< remains in display.
EXPERT settings, page 18:
㉓ Autom. LEARN
㉔ Autom. change of regional programme

Traffic radio

Announcement stand-by for traffic announcements (TP)



Announcement stand-by
when TP button "activated" and
>TP< is in display
(TP = Traffic Program).

Switching TP on/off:
Press TP button
(with EC 7500 RDS – press until signal sounds).

You will hear traffic announcements at a minimum volume:
EXPERT setting ⑬ Minimum volume for traffic announcements, page 17.
Volume may be altered during the announcement using the rotary knob.

You will hear only traffic announcements if you set the volume to "zero".

Cassette or CD operation stops during the traffic announcement.

Discontinue traffic announcement:
Briefly press TP button.

If the selected traffic radio station can no longer be received, another traffic radio station with better reception will be tuned in:
>LRN ...< is in display.
See page 18: ㉓ Autom. LEARN.

Storing traffic announcements (AIM) EC 7500 RDS

AUTOMATIC INFO MEMO

AIM function
You can automatically store traffic announcements from the selected traffic radio station:
– while the car radio is on.
– after switching the car radio off:
2 hours of memory stand-by.
– with TIMER selection, e.g., every morning at the same time, or before beginning a trip:
2 hours of memory stand-by per TIMER.

EXPERT settings, page 16:
① Current time manual or
② Current time automatic
③ AIM recording quality
④ AIM function (On/Off)
⑤ AIM TIMER 1
⑥ AIM TIMER 2

Setting current time
In order that you know from when a stored traffic announcement is, and for the TIMER preselection to function, "Current time" must be set (page 16: ① / ②).

AIM memory capacity
– normal recording quality: approx. 6 mins.
– better recording quality: approx. 4 mins.

– If the AIM memory is full, the oldest traffic announcements are erased.

AIM memory stand-by

If the car radio is switched on and a traffic radio station is tuned (>TP< in display, for EON stations the [TP] button must be "activated"), AIM memory standby is always available.

When the car radio is switched off:

– AIM memory (On).
– Traffic announcement station is selected: >TP< is in display (before switching off!)
– Aerial is ready to receive.
– With TIMER pre-selection: Switch-on time(s) set.

Listening to AIM memory

Briefly press [TP] button; in display...

Example

>MO7 06:15<:

– 7 traffic announcements in memory.
– First you will hear the latest (most current) traffic announcement (MO7) from 6:15.
– You will hear all messages in sequence.

>NO MSG<:

AIM memory empty (No Message).

Traffic announcement(s):

– skip or repeat:
Briefly press [NEXT>] button or [<NEXT] button.
– fast forward or reverse:
Hold [NEXT>] button or [<NEXT] button.
– "erase" AIM memory
while you are listening to the AIM memory:
Press [U III] button until signal sounds;
>NO MSG<: AIM memory empty.

Note*

AIM memory is not on stand-by when the car radio is off,
if before you switch the radio off
>NO AIM< is in display.

With AIM memory stand-by on and car radio switched off:

– Traffic announcements more than 6 hours old are erased.
– If TIMER is selected and the car radio has not been switched on for one week, the TIMER selection is switched off (power consumption) until the car radio is switched on once again.
– For vehicles which indicate "power consumption" with a signal when the ignition is off, the unit must be connected directly to the battery (see Installation and removal, page 22).

ATTENTION with automatic aerials and AIM memory stand-by*!
See "Please note" on page 1!

GB

*EC 7500 RDS

PTY Programme types

Programme types

Prerequisite

Radio stations offer the "Programme types" service in the FM range (U I, U II, U III).

Programme types

The programme types a radio station offers change according to the programme being broadcast.

>PTY< in display, as long as the selected programme type is available.

Exception: >NO PTY< is set and the tuned station offers no programme type.

NO PTY	No programme type identifier
NEWS	News and current events
AFFAIRS	Politics and current affairs
INFO	Special talk programme (e.g., consumers´ magazine)
SPORT	Sport programme
EDUCATE	Learning and continuing education
DRAMA	Radio plays and literature
CULTURE	Culture, church and society
SCIENCE	Science
VARIED	Talk entertainment
POP	Pop music (hits)
ROCK M	Rock music
M.O.R.M	Light music
LIGHT M	Light classical music
CLASSICS	Serious classical music
OTHER M	Music programmes that cannot be categorised (e.g., Folklore)

Memory positions

Memory positions 1 2 3 4

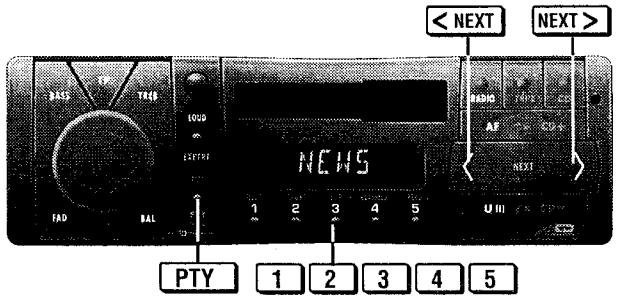
are assigned the programme types:
NEWS, SPORT, POP (with M.O.R.M) and CLASSICS (with LIGHT M).

Memory position 5

(PERS: personal) can be assigned a programme type of your choice:

1. Switch on PTY function:
   Briefly press PTY button.
2. Select programme type:
   Turn rotary knob.
3. Press 5 button until signal sounds.

PTY function



1. Switch on PTY function

Briefly press PTY button:
last selected programme type is in display.

2. Select programme type...

with the

– **Memory buttons 1 2 3 4 5**
Press button briefly:
PTY Search starts automatically,
goes to the next station which is offering the selected programme type,
>PTY ...< is in display.

with the

– **Rotary knob**
Turn slowly to the left or right.

3. Start or continue PTY Search

Briefly press < NEXT button
or NEXT > button:
PTY Search goes to the next station that is offering the selected programme type.

If no station is offering your selected programme type, you will hear the last station that was tuned in.

4. Switch off PTY function

Briefly press PTY button, or
automatically after approx. 60 seconds.

Cassette at a glance

See also "Cassettes" and "Dolby noise reduction", page 24.

Select programme source TAPE

Insert cassette into cassette compartment, or Cassette in cassette compartment:
Press TAPE button.

EASY CONTROL
Only those button symbols light up which you need for cassette operation.
You can select the memory position buttons directly (radio operation).
The other buttons have no function.

>TAPE 1< - upper cassette side
>TAPE 2< - lower cassette side

Automatic tape type recognition
for Cr >Cr< , Fe and Me cassettes.

"Cassettes" with and without Dolby NR

Press DOLBY button (repeatedly):
>DOLBY B< - Dolby B NR
>DOLBY C< - Dolby C NR (EC 7500 RDS)

Changing the cassette side

Press ⇄ button, or at end of tape.

Fast forward and reverse

Press button until signal sounds...
Fast forward: NEXT > button - >TAPE FF<
Reverse: < NEXT button - >TAPE FR<
End: Press ⇄ button or automatically at end of tape.

Skipping or repeating one or more music selections (APF)

Automatic **P**rogram **F**inder

Prerequisite: pauses of at least 3 seconds between music selections (without announcer text or the like).

Music selections with very quiet passages (e.g., classical music) are unsuitable because such passages are treated as pauses.

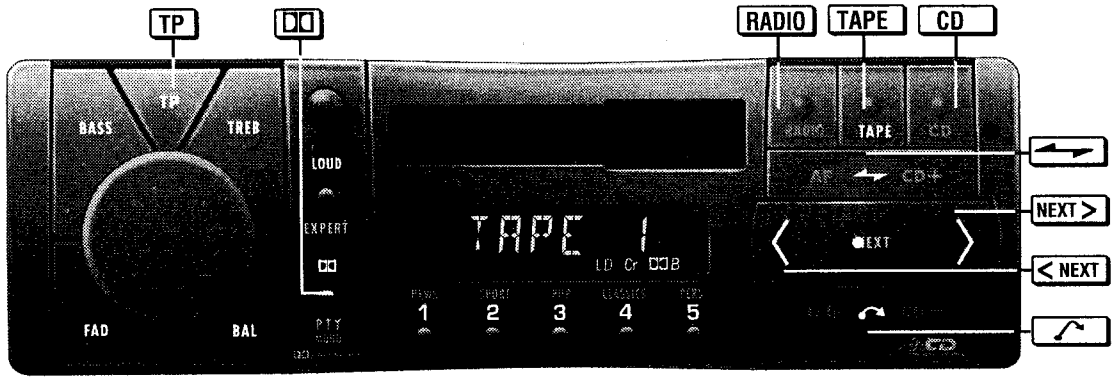
Skipping the selection you are hearing:
Briefly press NEXT > button - >APF +1<

Repeating the selection you are hearing:
Briefly press < NEXT button - >APF -1<

Skip music selections, e.g. 4:
Briefly press NEXT > button 4x - >APF +4<

Repeat music selections, e.g. 6:
Briefly press < NEXT button 6x - >APF -6<

End APF prematurely: Press ⇄ button.



Display indicator in display > ... <

→

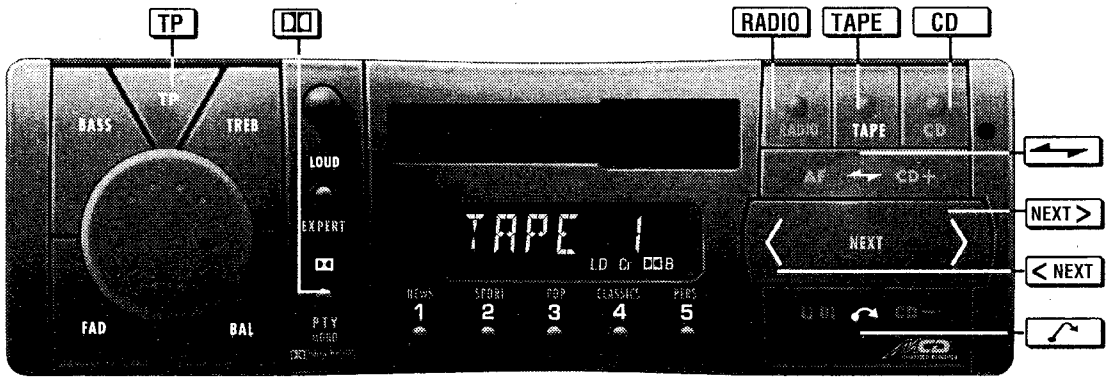
Play brief sample of each selection (On/Off)
Press TAPE button until signal sounds: >MC SCAN< (On) or >RESET< (Off). If the piece of music is to remain audible during MC SCAN: Press the TAPE button briefly; >RESET< appears briefly in the display.

Cassette Pause (On/Off)
Briefly press TAPE button: >MC PAUSE<

End cassette mode
Press RADIO button (Radio mode) or
Press CD button (CD mode):
Cassette remains in cassette compartment.

Eject cassette: Press ⏏ button.

Traffic announcements (page 10), if TP button is "activated" and >TP< is in display.
On/Off: Press TP button
(with EC 7500 RDS – press until signal sounds).



Compact Disc (CD)

Select programme source CD
Press CD button.
EASY CONTROL
Only those button symbols light up which you require for CD operation.
You can select the memory location buttons (radio mode) directly.
In display, e.g.:
>CD 1 TO1<: 1st CD – 1st title (track)
>TO1 01:15<: 1st title – Play-time-1st title
>TR RND<: "Play back titles of CD in random sequence"

Switching the Display
Press CD+ button until signal sounds, e.g.,
>CD 1 TO1<: 1st CD – 1st title or
>TO1 01:15<: 1st title – Play-time-1st title

Select CD
Briefly press CD+ button or CD– button (repeatedly) until number of CD is in display.

Select or repeat title
Press buttons briefly (repeatedly) until number of title is in display.
[NEXT>] button: next title
[<NEXT] button: previous title or repeat title.
If >T-- 00:00< is in display (play titles of CD in random order):
Press [CD–] button until signal sounds.

Forward and reverse
Listen to titles in "Quick preview" at reduced volume:
Forward: Hold down [NEXT>] button.
Reverse: Hold down [<NEXT] button.

Automatically sample 1st title of each CD for approx. 10 seconds (CD SCAN)
Press [CD] button until signal sounds;
>CD SCAN< is briefly in display.
If you wish to retain the sampled CD:
Briefly press [CD] button;
>RESET< is briefly in display.

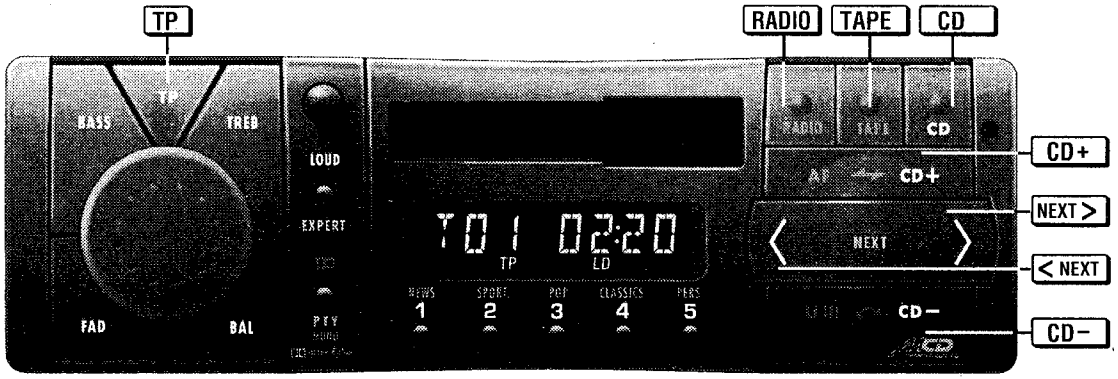
Play back titles of the CD in random sequence (TRACK RANDOM)
Press [CD–] button until signal sounds;
>TR RND< →>T-- 00:00< is in display.
End: Press [CD–] button until signal sounds;
>RESET< is briefly in display.

CD Pause
Press [CD] button: >CD PAUSE<
End: Press [CD] button.

End CD operation
Press [RADIO] button (Radio mode) or [TAPE] button (Cassette mode).

Traffic announcements (page 10), when [TP] button is "activated" and >TP< is in display.
On/Off: Press [TP] button
(with EC 7500 RDS – press until signal sounds).

EXPERT settings
⑭ Volume adjustment (page 17)
⑮ CD Input sensitivity (page 18)



*Your authorized dealer can inform you which »Grundig CD changer« is suitable.

EXPERT settings

EXPERT

26 "possible" settings.

To make car radio operation as easy as possible, numerous settings that you need only once or occasionally are located in an additional control level (EXPERT).

Setting

1.Switch on EXPERT:
Press [EXPERT] button until signal sounds.

2.Select setting
Select from

Possible settings ①...㉖

the setting you wish to check or alter.
Example:

① Current time manual
>TM 13:10< (e.g. 13 hrs. 10 minutes)

Turn rotary knob until required setting >...< in display.

3."Activate" setting:
Briefly press [EXPERT] button.
Display colour changes.

4.Alter setting
Set the current time using the rotary knob, e.g.
>TM 17:05< in display.

5."Deactivate" setting:
Briefly press [EXPERT] button.
Display colour changes.

6.Next setting:
(Repeat steps 2 to 5)

7.Switch off EXPERT:
Press [EXPERT] button until signal sounds.

Possible settings ①...㉖

In display: >...<

AIM: Store traffic announcements
(EC 7500 RDS)

① Current time, manual
>TM 13:10< (e.g. 13 hrs. 10 minutes)

② Current time automatic
>SYNC ON<:
If an "RDS programme with time synchronization" is tuned, the time is corrected automatically.
>SYNC OFF<:
no time synchronization.

③ AIM recording quality
>HQUALITY< (better)
Memory capacity approx. 4 minutes.
>LQUALITY< (normal)
Memory capacity approx. 6 minutes.

④ AIM function (On/Off)
>AIM ON< or
>AIM OFF< – no AIM memory stand-by when car radio is off.

⑤ AIM TIMER 1
(see page 10: AIM function)
Current time is set: ① or ②.
>T 1 OFF<: TIMER 1 off, between >T 1 23:59< and >T 1 00:01<
>T 1 06:05<: switch-on time is set.

⑥ AIM TIMER 2
(see page 10: AIM function)
Current time is set: ① or ②.
>T 2 OFF<: TIMER 2 off, between >T 2 23:59< und >T 2 00:01<
>T 2 08:00<: switch-on time is set.

Display

⑦ Display contrast
>LCD V 25<, set according to installation location of the car radio. Optimal setting is best achieved in "darkness".

⑧ Display colour (green or red)
>COL GRN< or >COL RED<

GB

Lighting

⑨ **Lighting logic** (On/Off)

>ILLU ON< :
Car radio illumination set to preset value of setting ⑩ (night setting), when vehicle lights are switched on.

>ILLU OFF< :
No alteration to illumination.

⑩ **Lighting brightness Day/Night**

⑨ illumination logic set to >ILLU ON< !
set >LED V ...< ...(01...07)

Day setting:
set with vehicle lights switched off.

Night setting:
Set with vehicle lights switched on.

Volume

⑪ **Speed-controlled volume**

>SCVOL ...< (0...144)
Setting is possible only if a speed-controlled signal (page 21) is present on the SCV connection (A1, page 22).

>SCVOL 0< : SCV switched off
>SCVOL 144< : maximum effect

For reasons of safety the following setting should be carried out by the passenger!

Setting:

1.Car standing still, motor running:
Set desired volume with rotary knob.

2.Prepare EXPERT setting:
Press EXPERT button until signal sounds.
Turn rotary knob until e.g.
>SCVOL ...< is in display.
Press EXPERT button until colour alters.

3.At higher speed:
Use rotary knob to set required volume, e.g. >SCVOL 124< in display.
Press EXPERT button until signal sounds.

>SCVOL 00< : SCV switched off.

⑫ **Volume limit when switching on**

>ONVO OFF< : no limit or
>ONVO 35< : max. volume, e.g. 35:
The volume is limited only if the volume when the car radio is switched off is greater than the set value!

⑬ **Minimum volume for traffic announcements**

>TA VOL ...< (20...60)

⑭ **Volume adjustment**

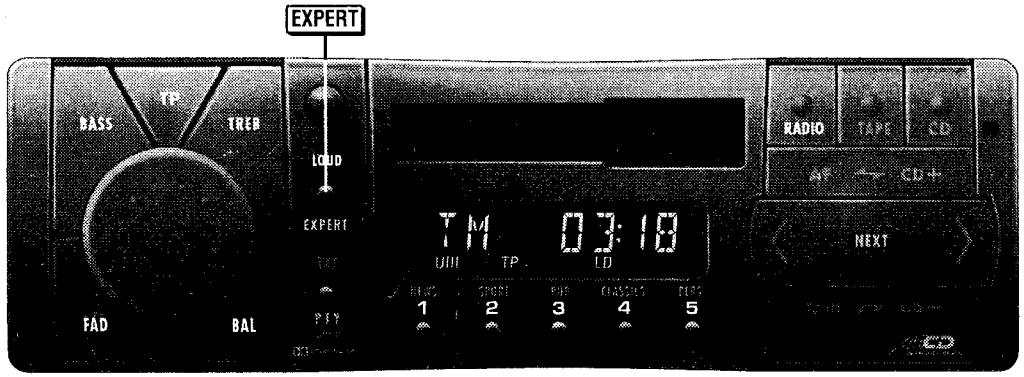
between RADIO (all ranges and memory position buttons), TAPE, CD, Phone mode and AIM memory.

Select the signal source where the volume deviates from the others.

You can select, check and set the signal sources in any sequence without leaving EXPERT.

– Programme source RADIO

Press RADIO button (radio mode) e.g.
>P1 DIF +3< (P1 = memory position button 1)



Range MW – Memory positions 1 2 3 4 5
Range LW – Memory positions 1 2 3 4 5
Range U I – Memory positions 1 2 3 4 5
Range U II – Memory positions 1 2 3 4 5
Range U III – Memory positions 1 2 3 4 5
>PO DIF +0< (PO):
Signal source is not stored at a memory position button, e.g. after search.

– Programme source TAPE
Press **TAPE** button (Cassette mode)
>MC DIF +0<

– Programme source CD
Press CD button (CD mode)
>CD DIF +0<

– Phone mode "Listen over radio"
>PH DIF +0<

– Play back AIM memory
>AIM DIF +0<

⑮ **CD input sensitivity**
Adjusting for a CD player:
>CD MID < middle (e.g. Grundig MCD 30)
>CD HIGH< high
>CD LOW < low

Power booster

⑯ **On/Off switching delay**
>DELAY ...< (06...99)
If "switching noise" occurs: increase set value until switching noise is no longer audible.

Acoustic system (EC 7500 RDS)
You can set bass and treble separately for the front and rear speakers.
Setting range: – 3...+ 3

⑰ **Bass – Rear speakers**
>BAS R +0< (R = REAR)

⑱ **Bass – Front speakers**
>BAS F +0< (F = FRONT)

⑲ **Treble – Rear speakers**
>TRE R +0< (R = REAR)

⑳ **Treble – Front speakers**
>TRE F +0< (R = FRONT)

General

㉑ **Mute with Phone mode**
>PHONE OFF< no mute
>PHONE ON < mute

㉒ **Security LED display** (On/Off)
(see "Theft protection", page 2)
>BLK ON < Memory position 3 flashes
>BLK OFF< ...does not flash

㉓ **Autom. LEARN** (Radio mode)
If you are often in reception areas which have poor reception of "RDS programmes with traffic announcements", you can prevent the "autom. LEARN (LRN) in Radio mode". See "Traffic radio", page 10.
>LRN ON <: autom. LEARN
>LRN OFF<: no autom. LEARN
(exception with volumes under 10).

㉔ **Autom. change of regional programme**
If an RDS programme consists of various regional programmes, it may occur that your car radio changes between regional stations because of the reception area.
>REG ON < autom. change of regional programme is possible.
>REG OFF< no change of regional programme is possible.

㉕ **Switching on and off with the ignition/start switch**
>IGN ON < ...possible if the car radio was switched off using the ignition/start switch.
>IGN OFF< ...not possible; switching on and off only with the rotary knob.

㉖ **Manual frequency setting**
>MAN OFF< ....not possible.
>MAN ON < ...possible for the duration of the setting (page 9).

GB

Coding

Your personal Code Number is located on the Identity Card for your car radio.

Coding is not activated when the radio leaves the factory.

If you have "activated" your car radio´s coding:
As soon as you take the car radio out or disconnect it from the car battery (or permanent plus clamp 30), it is electronically blocked. Only you are able to put it back into operation by entering your personal Code Number (Return to operation, page 20).

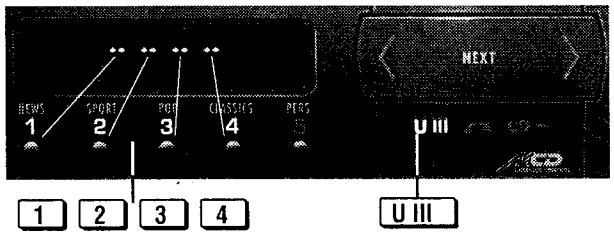
If the Code Number is lost (Identity Card), only a dealer can put the radio back into operation after you provide proof of ownership and pay a fee.

Is the coding activated?

Radio is playing:
Press [U III] button until signal sounds.
In display:
> SAFE < Coding activated, or
> CODE < Coding not activated.
Then:
Press [U III] button until signal sounds.

Activating coding

1. Radio is playing.
2. Press [U III] button until signal sounds:
> CODE < is in display.
After approx. 3 seconds:
>– – – –< is in display.
If you wish to terminate "Activate coding":
Press [U III] button until signal sounds, or switch car radio off and on again.
3. Input Code No. (see Identity Card) using the buttons [1] [2] [3] [4].



Repeatedly press buttons...
– briefly: 1, 2, 3, 4...(forwards)
– longer: 0, 9, 8, 7...(backwards)
until Code No. is in display.

4. Confirm Code No.:
Press [U III] button until signal sounds:
> SAFE < is in display.
After approx. 3 seconds:
Radio plays.
The coding is activated!

Waiting periods

Wait times are required between activation attempts so that "Return to operation" or "Deactivate coding" are not possible by trial and error. During these waiting periods the car radio input function is locked for all entries.

During the waiting period
the car radio must be switched on, with
> SAFE < in the display.
The waiting period is over when the number of the next attempt is visible in the display, e.g. > 2 – – – –<.

The table shows the waiting periods between the individual attempts. Waiting period after the 7th attempt is always 24 hrs.!

Attempt (in display)	Wait.per. (approx.)
1	
2	21 sec.
3	1,5 min.
4	5,5 min.
5	22 min.
6	1,5 hrs.
7	6,0 hrs.
8	24 hrs.
	24 hrs.

After the 6th attempt we recommend having a dealer complete the "Return to operation" or "Deactivate coding" process.

→

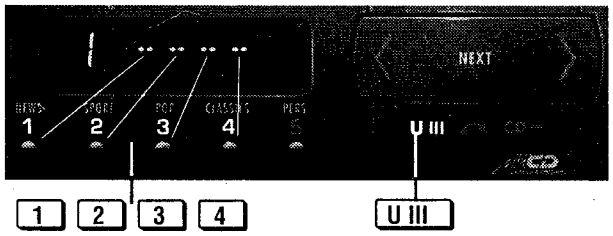
Return to operation

The car radio is electronically blocked after it has been disconnected from the car battery (or permanent plus clamp 30 of your vehicle), e.g., after it has been removed.

1. Switch on car radio:
   > SAFE < is in display.

After approx. 3 seconds:
   > I – – – – < is in display.

2. Enter Code No. (see Identity Card) with the buttons [1] [2] [3] [4].



Press buttons repeatedly...
– briefly: 1, 2, 3, 4...(forwards)
– longer: 0, 9, 8, 7...(backwards)
until Code No. is in display.

3. Confirm Code No.:
   Press [U III] button until signal sounds:
   > SAFE < is in display.

After approx. 3 seconds:
   Radio plays.

False Code No. was input:
   > SAFE < remains in display.
   Radio does not play.
Begin again.
Be sure to observe the "waiting periods" between attempts.

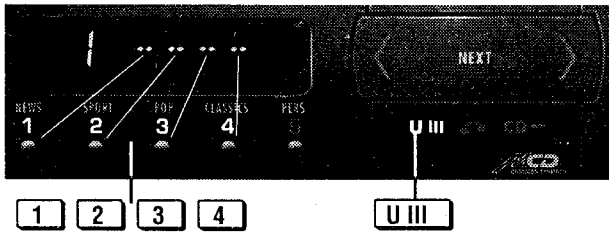
Deactivate coding

e.g., before removing the car radio:

1. Radio is playing
   Press [U III] button until signal sounds:
   > SAFE < is in display.

After approx. 3 seconds:
   > I – – – – < is in display.

2. Enter Code No. (see Identity Card) with the buttons [1] [2] [3] [4].



Press buttons repeatedly...
– briefly: 1, 2, 3, 4...(forwards)
– longer: 0, 9, 8, 7...(backwards)
until Code No. is in display.

3. Confirm Code No.:
   Press [U III] button until
   > CODE < is in display.

After approx. 3 seconds:
   Radio plays.

The coding is no longer activated!

False Code No. was input:
   > SAFE < remains in display.
   Radio does not play.
Begin again.
Be sure to observe the "waiting periods" between attempts.

Maintenance and care

Your car radio has been designed throughout to ensure maintenance-free operation over an extended period of time. If a malfunction should occur, please consult your dealer. See also "In case of defect" (at the end of this booklet).

Cassettes must not be subjected to high temperatures (see manufacturer´s specifications) and should be returned to their case after use.

Clean the trim using a soft, dust-catching anti-static cloth only. Polishing and cleaning agents can damage the surface of the trim.

The tape head must be free of tape dust in order to avoid losses in the highs during playback. Therefore you should clean the tape head with a cleaning cassette after every 50–100 hours of operation.

SCV Speed-Controlled Volume

Speed-controlled volume

Speed **C**ontrolled **V**olume (SCV)
The car radio is well-suited to most types of signal generators.
Your vehicle dealer can inform you whether your vehicle is suitable for "speed-controlled volume regulation".

Prerequisite:
A speed-controlled signal must be located on the SCV connection (Supply voltages - A1, page 22)!

A signal generator is already present in cars with an electronic tachometer, on-board computer, cruise controller, etc.

If the signal generator is already connected to the car earth, only the output of the signal generator remains to be connected to the SCV connection.

Attention!
Do not short-circuit the signal generator´s output with the vehicle chassis!

In most cases, a signal generator can be installed if one is not already available.

Setting SCV
EXPERT setting, page 17:
⑪ Speed-controlled volume.

GB

Installation and removal

Figures [1] – [5] can be found at the beginning of this booklet.

Installation materials and accessories

Your dealer can advise you as to what installation materials you will need and what accessories are available.

Inserting the mounting frame

Figure [1]

– Insert mounting frame **b** into cutout **a** of the vehicle.
– Bend the tabs **c** behind cutout **a** as required (depending on type of vehicle).

Supply voltages

Blade contacts A: Figure [4]

A8 — Operating voltage

Connect to terminal 31 (earth) of the vehicle.

A7 +12 V Operating voltage

Connect to terminal 30 (permanent plus) of the vehicle.

Note for EC 7500 RDS

For vehicles which indicate "power consumption" by a signal when the ignition is off:
Connect terminal A7 (+12V) of the car radio directly to the battery and terminal A8 (– earth) of the car radio directly to the vehicle earth (minimum conductor cross-section 1.5 mm²).
For reasons of safety it is important that a fuse holder (with 16 A fuse) is always installed between the battery +12V and the terminal A7 at the unit!
The fuse holder must be connected directly to the battery (short cable).

A6 Illumination of radio controls

Connect blade contact **A6** to terminal 58 on the vehicle:
The car radio illumination is set to a preset value when the vehicle lights are switched on.
EXPERT settings, page 17:
⑨ Illumination logic (BEL) (On/Off).
Blade contact **A6** not connected:
The brightness of the illumination is not reduced.
You can change the brightness of the illumination by day and by night.
EXPERT settings, page 17:
⑩ Illumination brightness Day/Night.

A5 +12 V Switching voltage (max. 0.5 A)

on blade contact A5 with radio switched on.
For automatic aerial (Extend/Retract), aerial amplifier (operating voltage), etc.

A4 +12 V Ignition voltage

Connect to terminal 15 or terminal 30 on the vehicle:
– Terminal 15, if you wish to switch the car radio on and off with the ignition/start switch.
– Terminal 30, if you do not wish to switch the car radio on and off with the ignition/start switch.

A2 Telephone mute

Connection for car telephone or CB radio:
The car radio is "muted" when the car telephone or CB radio is in operation. Blade contact A2 is earthed (EXPERT settings, page 18:
㉑ Mute with Phone mode).

A1 SCV connection (+)

SCV speed-controlled volume (page 21).

Speakers

Blade contacts B: Figure 4

Maximum output

to 4 Ω speakers:

Peak output _____ 4 x 50 W

Sustained output, acc. DIN 45324 _ 4 x 25 W

Do not electrically connect speaker connections to each other and do not connect to chassis (danger of short circuit)!

Front speakers		Rear speakers	
B 3	right +	**B 1**	right +
B 4	right –	**B 2**	right –
B 5	left +	**B 7**	left +
B 6	left –	**B 8**	left –

Connecting the aerial

Figures 2 and 3

– If required, use the aerial adapter (Fig. 2).

– Fix the aerial adapter (Fig. 2) or the aerial lead (Fig. 3) in the plastic holder.

Additional connections

Blade contacts C: Figure 4

CD control

C 13 CD bus
C 15 power supply (earth)
C 16 power supply +12 V
C 17 switching voltage
C 18 CD-AF earth
C 19 CD-AF left
C 20 CD-AF right

Line output

Connection for booster or active speaker.

C 1 Rear speaker left +
C 2 Rear speaker right +
C 3 Earth –
C 4 Front speaker left +
C 5 Front speaker right +
C 6 Switching voltage for booster: On/Off switch (max. 0.3 A).
EXPERT settings, page 18:
⑯ On/Off switching delay

Phone input

Connection for car telephone or CB radio (listening via car radio).

C 11 Phone AF left
C 12 Phone AF earth

Inserting the car radio

Figure 1

– Insert the car radio all the way into the installed mounting frame **b**.
The car radio should snap into place.

GB

Removing the car radio

Figure 5

– Remove the control panel (page 2).
Insert both removal handles **d** as far as possible into the openings in the trim.

– Press both removal handles outward ↔ and slowly pull the radio out.

Fuse T 10 A

Figure 4

Blade-type fuse T 10 A/DIN 72581– plugged.

Important information

Cassettes

Cassettes

are subjected to high temperatures during car radio operation. Therefore use only high-quality heat-resistant C 60 and C 90 cassettes from name-brand manufacturers.

Dolby noise reduction

is manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY and the Double D symbol ◻◻ are registered trademards of the Dolby Laboratories Licensing Corporation.

Radio reception conditions

FM reception

Reception conditions change constantly while you are driving.
Mountains, buildings or bridges can all disturb reception.
This is particularly true when you are farther away from the station.

Radio Data System (RDS)

RDS is an information system whose signals are broadcast along with the FM radio station programme.

Programme service

So that you see what you are listening to!
With RDS programmes, you see the abbreviated name of the programme in the display, e.g. *>BAYERN 3<*
which stands for Bayerischer Rundfunk – Programme 3.
Please note that RDS programmes can have different regional stations and programme names.

Alternative frequencies

An RDS programme is broadcast by several stations, each with a different broadcast frequency (alternative frequencies).
You select an RDS programme and your car radio always tunes to a station with good reception that is broadcasting the same RDS programme.

Enhanced Other Network (EON)

Listen to traffic announcements even if you have tuned in an "RDS programme without traffic reports".
In the ranges U I, U II and U III.

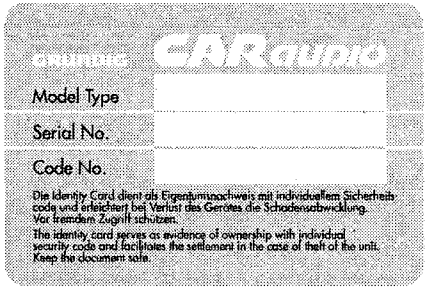
Prerequisite
The radio station that is broadcasting your selected RDS programme with EON also has an additional RDS programme which offers traffic announcements.

Announcement stand-by

for traffic announcements even with "RDS programmes without traffic announcements", if [TP] button is "activated".
>TP< is in display and
the selected RDS programme remains audible.

Switching TP on/off:

Press [TP] button until signal sounds.


GRUNDIG CARaudio
Model Type
Serial No.
Code No.
Die Identity Card dient als Eigentumsnachweis mit individuellem Sicherheits-code und erleichtert bei Verlust des Gerätes die Schadensabwicklung. Vor fremdem Zugriff schützen.
The identity card serves as evidence of ownership with individual security code and facilitates the settlement in the case of theft of the unit. Keep the document safe.

(D) **Identity Card** und **Code-Aufkleber**
(siehe dazu Seite 2)

(GB) **Identity Card** and **Code label**
(see page 2)

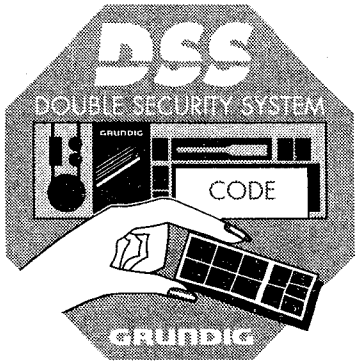
(I) **Identity Card** e **Adesivi di segnalazione**
(vedere pagina 2)

(F) **Identity Card** et **Autocollants de code**
(pour plus d'informations, voir page 2)

(NL) **Identity Card** en **Code-sticker**
(zie daarvoor pagina 2)

(E) **Identity Card** y **Adhesivos de código**
(véase la página. 2)

(P) **Identity Card** e **Autocolante «Code»**
(ver página 2)



(D) Im Falle eines Defektes

Auf Ihren Wunsch kann Ihr Fachhändler in der Bundesrepublik Deutschland als Serviceleistung Grundig Autoradios im Falle eines Defektes durch werksgeprüfte Austauschgeräte ersetzen.
Bitte beachten Sie jedoch, daß Voraussetzung für die Teilnahme Ihres Fachhändlers an diesem Austauschsystem das unverletzte Garantiesiegel am Gerät ist.

(GB) If a problem should arise

Please note, that the undamaged guarantee seal on the unit is the precondition for your guarantee.

(I) Se si dovesser verificare disturbi

L´apparecchio sia ancora presente il sigillo di garanzia intatto.

(F) En cas de défectuosité

Veuillez noter que vous ne pouvez plus faire valoir la garantie une fois le sceau d'origine rompu.

(NL) In geval van een defect

Let op, alleen als het garantiezegel niet verbroken is, heeft u recht op garantie.

(E) En caso de un defecto

Observe que el sello de garantia intacto en el aparato es el requisito para hacer valer el derecho de garantia.

(P) Em caso de defeito

Tenha em consideração que a premissa para a concessão da garantia é que o selo de garantia no aparelho estiver intacto.

(E)

DECLARACION DE CONFORMIDAD CON NORMAS

El que suscribe, en nombre de GRUNDIG AG,
Kurgartenstraße 37, D-90762 Fürth, RFA.
declara, bajo su propia responsabilidad, que el

Equipo:	AUTORRADIO CON CASSETTE
Fabricado por:	GRUNDIG AG
En:	BRAGA, PORTUGAL
Marca:	GRUNDIG
Modelo:	EC 7500 RDS
	EC 7400 RDS

objeto de esta declaración, cumple con la normativa siguiente:

- Anexo V del Reglamento sobre Perturbaciones Radioeléctricas aprobado en el Real Decreto 138/1989.
- Este certificado ha sido expedido para dar cumplimiento al Real Decreto 1066/1989 (Orden Ministerial del 18.10.1989).

Hecho en: Fürth el: 30.05.1994

Firma

Kamleiter — Jefe de Homologaciones

Nombre y apellidos — Cargo